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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 2

Sheet

Complete If Known					
Application Number	10/729,510	_ * -			
Filing Date	December 5, 2003				
First Named Inventor	William B. Vail, III				
Art Unit	3672				
Examiner Name	Thomas Bomar				
Attorney Docket Number	WFAT/0527.P1				

			U.S. PATENT	DOCUMENTS	
Examiner Initials	Cite No. <sup>1</sup>	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
L		US-6,857,487	02-22-2005	Galloway	
77		US- 6,857,486	02-22-2005	Chitwood, et al.	
7-7		US- 6,854,533	02-15-2005	Galloway	
		US- 6,848,517	02-01-2005	Wardley	
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Examiner	[.]	0"-	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,			
Initials		Cite No.1	Country Code <sup>3</sup> • Number <sup>4</sup> • Kind Code <sup>6</sup> ( <i>il known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>		
			EP 0479583	04-08-1992	Gonalez, et al.				
	$\Box$		EP 1148206	10-24-2001	Scott, et al.				
	7		GB 2381809	05-14-2003	Ohmer				
د	,		GB 2347445	09-06-2000	Metcalfe, et al.				
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Z	_		WO 97/05360	02-13-1997	Collins				
11			WO 03/074836	09-12-2003	Philip				
<b>'</b>				<b>1</b>		M	l		

Examiner Signature	Frac /ss	Date Considered	11/15/05

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INFORMATION DISCLOSURE				Application Number	10/729,510	
			CLOSURE	Filing Date	December 5, 2003	
STAT	STATEMENT BY APPLICANT			First Named Inventor	William B. Vail, III	
				Art Unit	3672	
	(Use as many sheets as necessary)		Examiner Name	Thomas Bomar		
Sheet	2	of	2	Attorney Docket Number	WEAT/0527.P1	

			U.S. PATENT	DOCUMENTS	
Examiner	Cite Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevan	
	No.1	Number - Kind Cods <sup>2</sup> (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear
77		US-6,237,684	05-29-2001	Bouligny, Jr., et al.	
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		US- 6,012,529	01-11-2000	Mikolajczyk, et al.	
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1		US- 2004-0251025	12-16-2004	Giroux, et al.	
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T -		US- 2004-0244992	12-09-2004	Carter, et al.	
14		US- 2004-0226751	11-18-2004	McKay, et al.	
V		US- 2004-0221997	11-11-2004	Giroux, et al.	
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Examiner Cite No.1	Cito	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	
	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>6</sup> (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>	
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Examiner Signature	Fred	Can	Date Considered	11/15/05

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Translation is attached.

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Sheet

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of | 12

Application Number	10/729,510	
Filing Date	December 5, 2003	
First Named Inventor	William Banning Vail, III	
Group Art Unit	3672	
Examiner Name	Unknown	
Attorney Docket Number	WEAT/0527.P1	
Customer No.	36735	
Submission Date	January 12, 2005	

Examiner	Cite	Document Number			Pages, Columns, Lines, Where
Initials* No.1	Number-Kind Code <sup>2</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
11	A1	US-2,167,338	07-25-1939	Murcell	
7	A2	US-2,228,503	01-14-1941	Boyd, et al.	
	A3	US-2,370,832	03-06-1945	Baker	
	A4	US-2,379,800	07-03-1945	Hare	
	A5	US-2,414,719	01-21-1947	Cloud	
	A6	US-2,720,267	10-11-1955	Brown	
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	A8	US-3,006,415	10-31-1961	Burns, et al.	
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	A10	US-3,054,100	09-11-1962	Jones	
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Examin			Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T⁰			
Initials	Initials No.	).'	Number-Kind Code <sup>2 (d known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear				
	B1	(	CA 2 335 192	11-30-2001	Kozak					
-17	B2	. 1	DE 3 523 221	02-01-1987	Svetozar					
7	Вз		DE 3 918 132	12-14-1989	Eriksson					
	B4	. [	EP 0 474 481	03-11-1992	Moody					
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Examiner Fig. 5 Date Considered 11/15/03

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Under the Panerwork Reduction Act of 1995. 10/729,510 **Application Number** Substitute for form 1449A/PTO Filing Date December 5, 2003 INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT **Group Art Unit** 3672 **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0527.P1 Customer No. 36735 Sheet 2 12 Submission Date January 12, 2005

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	Number-Kind Code <sup>2 (f known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
71	A19	US-3,552,507	01-05-1971	Brown	
7'	A20	US-3,552,848	01-05-1971	Van Wagner	
1	A21	US-3,566,505	03-02-1971	Martin	
	A22	US-3,602,302	08-31-1971	Kluth	
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	A24	US-3,635,105	01-18-1972	Dickmann, et al.	
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	A30	US-3,848,684	11-19-1974	West	
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	A32	US-3,913,687	10-21-1975	Gyongyosi, et al.	
	A33	US-4,054,332	10-18-1977	Bryan, Jr.	
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Examiner Initials*	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°		
	No.¹	Number-Kind Code <sup>2 (if known)</sup>	MM-DD-YYYY	Applicant of Cited Document				
	B6	EP 0 162 000	11-21-1985	Hamilton				
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1	B10	EP 0 525 247	02-03-1993	Willis				

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, thouse copy of this form with next communication to applicant. I Applicant's unique citation designation number (optional), 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3), 4 For Japanese patent documents, the indication of the year of the relign of the Emperor must procede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible, 6 Applicant is to place a check mark here if English language Translation is attached.

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36735

January 12, 2005

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Customer No.

**Submission Date** 

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			U.S. PATENT	DOCUMENTS		
Examiner Initials*			Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant	
1		Number-Kind Code <sup>2 (ft known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Figures Appear	
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/ /	A38	US-4,241,878	12-30-1980	Underwood		
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Examine			Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵				
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	B11	EP 0 589 823	03-03-1994	Busink, et al.						
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7/	B15	EP 0 962 384	12-08-1999	Poldervaart						

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Submission Date

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Initials	No.¹	Number-Kind Code <sup>2 (if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
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15	A56	US-4,649,777	03-17-1987	Buck		
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	A61	US-4,709,599	12-01-1987	Buck		
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	A64	US-4,742,876	05-10-1988	Barthelemy, et al.		
	A65	US-4,759,239	07-26-1988	Hamilton, et al.		
	A66	US-4,765,401	08-23-1988	Boyadjieff		
	A67	US-4,773,689	09-27-1988	Wolters		
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Examiner Initials*	Cite	Foreign Patent Document Number-Kind Code <sup>2 (3 known)</sup>	Publication Date	Name of Patentee or	Pages, Columns, Lines,	Т⁰
	No.'		MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	<b>:</b>
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7	B17	FR 2 841 293	12-26-2003	Bouygues Offshore		
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Approved for use through 07/31/2006, CMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

nation unless it displays a valid OMB control number. 10/729,510 Substitute for form 1449A/PTO **Application Number** Filing Date December 5, 2003 INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT **Group Art Unit Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0527.P1 Customer No. 36735 Sheet 5 of 12 Submission Date January 12, 2005

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Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No. <sup>1</sup>	Number-Kind Code <sup>2 (# known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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Examine		Cite				Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T⁰
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January 12, 2005

Under the Panerwork Reduction Act of 1995, on pation unless it displays a valid OMR control number. 10/729,510 Substitute for form 1449A/PTO **Application Number** Filing Date December 5, 2003 INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT Group Art Unit 3672 **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0527.P1 Customer No. 36735

Submission Date

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Initials*	No.	Number-Kind Code <sup>2 (if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
a a collection of information unless it displays a valid OMB control number. Under the Panerwork Reduction Act of 1995, on 10/729,510 **Application Number** Substitute for form 1449A/PTO Filing Date December 5, 2003 INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT Group Art Unit 3672 **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0527.P1 Customer No. 36735

**Submission Date** 

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Examiner	Cite		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
Initials*	No.¹	Number-Kind Code <sup>2 (I known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
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Initials*	No.'	Number-Kind Code <sup>2 (f known)</sup>	MM-DD-YYYY	Applicant of Cited Document						
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Initials	No.¹	Number-Kind Code <sup>2 (# known)</sup>	MM-DD-YYYY	Applicant of Cited Document						
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January 12, 2005

Under the Panerwork Reduction Act of 1995, no persons are required to respon 10/729.510 Substitute for form 1449A/PTO Application Number Filing Date December 5, 2003 INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT Group Art Unit 3672 Examiner Name Unknown (Use as many sheets as necessary) WEAT/0527.P1 Attorney Docket Number Customer No. 36735 Sheet 10 of 12 Submission Date

U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant			
		Number-Kind Code <sup>2 (8 known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Figures Appear			
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Examiner Initials*	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T⁵				
	No.¹	Number-Kind Code <sup>2 (# known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear					
17	B46	FR 2 741907	06-06-1997	Leighton						
/	B47									
	B48									
	B49									
	B50									

Examiner **Date Considered** EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant: 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible, 6 Applicant is to place a check mark here if English language Translation is attached.

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Substitute	o for form 1449B/PTO			Application Number	10/729,510
				Filing Date	December 5, 2003
INFO	RMATION DIS	CLOS	SURE	First Named Inventor	William Banning Vail, III
STAT	STATEMENT BY APPLICANT			Group Art Unit	3672
				Examiner Name	Unknown
	(Use as many sheets as necessary)			Attorney Docket Number	WEAT/0527.P1
				Customer No.	36735
Sheet	11	of	12	Submission Date	January 12, 2005
Sheet	[ 11	of	12	Submission Date	January 12, 2005

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
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				Filing Date	December 5, 2003
	<b>INFORMATION DIS</b>	CLO	SURE	First Named Inventor	William Banning Vail, III
	STATEMENT BY A	PPLIC	CANT	Group Art Unit	3672
				Examiner Name	Unknown
	(Use as many sheets as r	iecessary	)	Attorney Docket Number	WEAT/0527.P1
				Customer No.	36735 ·
	Sheet 12	of	12	Submission Date	January 12, 2005
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10/729.510 Application Number Filing Date December 5, 2003 First Named Inventor Vail, III 3672 **Group Art Unit Examiner Name** Unknown **Attorney Docket Number** WEAT/0527.P1

(Use as many sheets as necessary)

Sheet

Submission Date July 27, 2004

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Examiner	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	No.	Number-Kind Code <sup>2 (8 known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²		
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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**SUPPLEMENTAL** INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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(Use as many sheets as necessary)

Sheet

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Submission Date	July 22, 2004

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Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Number-Kind Code <sup>2 (f known)</sup>			Figures Appear	
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Examiner **Date Considered** 

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10/729,510 Substitute for form 1449A/PTO Application Number December 5, 2003 Filing Date SUPPLEMENTAL First Named Inventor Vail, III INFORMATION DISCLOSURE **Group Art Unit** 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0527.P1 Sheet Submission Date July 22, 2004

			U.S. PATENT	DOCUMENTS	
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Initials*	NO.	Number-Kind Code <sup>2 (I known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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10/729,510 Substitute for form 1449A/PTO **Application Number** December 5, 2003 Filing Date SUPPLEMENTAL First Named Inventor Vail, III INFORMATION DISCLOSURE **Group Art Unit** 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0527.P1 Sheet Submission Date July 22, 2004

Cite No.1	Document Number	_					
	Number-Kind Code <sup>2 (f known)</sup>		blication Date M-DD-YYYY		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Who Relevant Passages or Relev Figures Appear	ere ant
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A62	US-4221269	+		├			
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A75	US-3489220	01/	13/1970	Kin	ley		
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	FC	ORE	IGN PATE	NT [	DOCUMENTS		
Cite	Foreign Patent Document		Publication D	ate	Name of Patentee or	Pages, Columns, Lines,	T <sup>®</sup>
No.	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if kno	own)			Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
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SUPPLEMENTAL

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5 of 11

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Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Submission Date	July 22, 2004

			U.S. PATENT	DOCUMENTS	
Examiner	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	NO.	Number-Kind Code <sup>2 (Il known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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//	A78	US-3191680	06/29/1965	Vincent	
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Initials*			Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document			
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Examiner Frac Test Date Considered 11/15/105

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SUPPLEMENTAL **INFORMATION DISCLOSURE** STATEMENT BY APPLICANT

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Sheet 6 of	11
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Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Submission Date	July 22, 2004

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Examiner Initials*	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
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initials			Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>3</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document			
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**Date Considered** 

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Substitute for form 1449A/P	то		Application Number	10/729,510	
			Filing Date	December 5, 2003	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		First Named Inventor	Vail, III		
		Group Art Unit	3672		
		Examiner Name	Unknown		
(Use as many sheets as necessary)			Attorney Docket Number	WEAT/0527.P1	
Sheet 7	of	11	Submission Date	July 22, 2004	<del></del>

Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>3</sup> (il known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°
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	SUPPLEMENT	ΓΔΙ		Filing Date	December 5, 2003
INFO	RMATION DISC		SURE	First Named Inventor	Vail, III
	EMENT BY AP			Group Art Unit	3672
				Examiner Name	Unknown
	(Use as many sheets as ne	cessary	)	Attorney Docket Number	WEAT/0527.P1
Sheet	8	of	11	Submission Date	July 22, 2004

	FOREIGN PATENT DOCUMENTS  Examiner Cite Foreign Patent Document Pages, Columns, Lines, Tourns, Lines,										
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	B75										
	B76										
	B77		1								
	B78										

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number. 10/729,510 **Application Number** Substitute for form 1449B/PTO Filing Date December 5, 2003 SUPPLEMENTAL First Named Inventor Vail, III INFORMATION DISCLOSURE **Group Art Unit** 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0527.P1 Sheet **Submission Date** July 22, 2004

		NON PATENT LITERATURE DOCUMENTS						
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the						
		HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development, " Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orlean, LA Feb. 23-25, 2000 pp. 1-9.						
1	C2	M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Driling are Options" Drilling Contractor, January/February 2002, pp. 52.						
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	C5	DEAN E. GADDY, Editor, "Russia Shares Technical Know-How with U.S." Oil & Gas Journal, March (1999), pp. 51-52 and 54-56.						
	C6	United States Patent Application 10/794,800, filed March 5, 2004 (WEAT/0360)						
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	C8	United States Patent Application 10/795,214, filed March 5, 2004 (WEAT/0373)						
	C9	United States Patent Application 10/794,795, filed March 5, 2004 (WEAT/0357)						
40	C10	United States Patent Application 10/775,048, filed February 9, 2004 (WEAT/0359)	,					
<del></del>	C11	United States Patent Application 10/772,217, filed February 2, 2004 (WEAT/0344)	-					
4	C12	United States Patent Application 10/788,976, filed February 27, 2004 (WEAT/0372)						

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Submission Date

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			
4	C13	United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371)			
7	C14	United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343)			
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1	C24	Rotary Drilling, The Bit, Unit I, Lesson 2, Third Edition, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas			

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Substitute	for form 1449B/PTO			Application Number Filing Date	10/729,510 December 5, 2003
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1	C26	Well Servicing and Workover, Artificial Lift Methods, Lesson 5, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas			
	C27	Rotary Drilling, Drilling Mud, Unit II, Lesson 2, Third Edition, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas			
	C28	Rotary Drilling, Subsea Blowout Preventers and Marine Riser Systems, Unit III, Lesson 4, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas			
	C29	Well Servicing and Workover, Control of Formation Pressure, Lesson 9, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas			
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	C37	Rotary Drilling, Making Hole, Unit II, Lesson 1, Second Edition, Petroleum Extension Service, The University of Texas at Austin, Austin, Texas			
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/ '	A2	6,554,064	04-29-2003	Restarick et al.	166	250.01	
	А3	6,543,538	04-08-2003	Tolman et al.	166	284	
	A4	6,538,576	03-25-2003	Schultz et al.	340	859.6	
	A5	6,536,522	03-25-2003	Birckhead et al.	166	250.15	
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	A7	6,527,064	03-04-2003	Hallundbaek	175	320	
	A8	6,527,047	03-04-2003	Pietras	166	77.51	
	A9	6,509,301	01-21-2003	Vollmer	507	236	
	A10	6,497,280	12-24-2002	Beck et al.	166	250.07	· · · · · · · · · · · · · · · · · · ·
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	A13	6,443,247	09-03-2002	Wardley	175	402	
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	A15	6,427,776	08-06-2002	Hoffman et al.	166	311	
	A16	6,419,033	07-16-2002	Hahn et al.	176	61	:
	A17	6,419,014	07-16-2002	Meek et al.	166	255.2	
	A18	6,412,574	07-02-2002	Wardley et al.	175	7	
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	A20	6,408,943	06-25-2002	Schultz et al.	166	285	
	A21	6,405,798	06-18-2002	Barrett et al.	166	250.01	
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1	A23	6,378,633	04-30-2002	Moore et al.	175	325.5	
1	A24	6,378,630	04-30-2002	Ritorto et al.	175	173	
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1	A28	6,359,569	03-19-2002	Beck et al.	340	856.3			
_/	A29	6,357,485	03-19-2002	Quigley et al.	138	125			
	A30	6,354,373	03-12-2002	Vercaemer et al.	166	277			
-+	A31	6,347,674	02-19-2002	Bloom et al.	175	51	:		
	A32	6,343,649	02-05-2002	Beck et al.	166	250.01			
	A33	6,325,148	12-04-2001	Trahan et al.	166	297			
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	A44	6,196,336	03-06-2001	Fincher et al.	175	101			
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1.	A47	6,182,776	02-06-2001	Asberg	175	300			
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4	A49	6,172,010	01-09-2001	Argillier et al.	507	102			
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11	A78	5,845,722	12-08-1998	Makohl et al.	175	101	1
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7 :	A106	5,551,521	09-03-1996	Vail, III	175	65	
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if	A131	5,291,956	03-08-1994	Mueller et al.	175	67	
//	A132	5,285,204	02-08-1994	Sas-Jaworsky	340	854.9	
	A133	5,285,008	02-08-1994	Sas-Jaworsky et al.	174	47	
	A134	5,282,653	02-01-1994	LaFleur et al.	285	110	: · ·
	A135	5,271,472	12-21-1993	Leturno	175	107	
	A136	5,255,751	10-26-1993	Stogner	175	203	
	A137	5,255,741	10-26-1993	Alexander	·166	278	
	A138	5,234,052	08-10-1993	Coone et al.	166	155	
	A139	5,209,302	05-11-1993	Robichaux et al.	166	355	
•	A140	5,197,553	03-30-1993	Leturno	175	57	
	A141	5,191,939	03-09-1993	Stokley	166	379	•
· .	A142	5,186,265	02-16-1993	Henson et al.	175	107	
	A143	5,176,518	01-05-1993	Hordijk et al.	434	37	·
	A144	5,176,180	01-05-1993	Williams et al.	138	172	
	A145	5,172,765	12-22-1992	Sas-Jaworsky	166	384	
	A146	5,168,942	12-08-1992	Wydrinski	175	50_	
	A147	5,160,925	11-03-1992	Dailey et al.	340	853.3	
	A148	5,156,213	10-20-1992	George et al.	166	297	
	A149	5,148,875	09-22-1992	Karlsson et al.	175	62	
	A150	5,111,893	05-12-1992	Kvello-Aune	175	258	
	A151	5,096,465	03-17-1992	Chen et al.	51	295	
	A152	5,082,069	01-21-1992	Seiler et al.	175	5	
	A153	5,074,366	12-24-1991	Karlsson et al.	175	76	
7	A154	5,069,297	12-03-1991	Krueger, deceased et al.	175	65	
A155 5,060,737 10-29-1991 Mohn				Mohn	175	104	
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1	A156	5,060,542	10-29-1991	Hauk	81	57.34	
//	A157	5,049,020	09-17-1991	McArthur	414	22.51	
_ <i>t</i>	A158	5,027,914	07-02-1991	Wilson	175	406	
	A159	5,022,472	06-11-1991	Bailey et al.	175	195	
	A160	5,009,265	04-23-1991	Bailey et al.	166	118	
	A161	4,997,042	03-05-1991	Jordan et al.	166	379	
	A162	4,962,822	10-16-1990	Pascale	175	258	
	A163	4,921,386	05-01-1990	McArthur	414	22.51	•
	A164	4,909,741	03-20-1990	Schasteen et al.	439	13	
	A165	4,880,058	11-14-1989	Lindsey et al.	166	289	
	A166	4,854,386	08-08-1989	Baker et al.	166	289	·
	A167	4,843,945	07-04-1989	Dinsdale	81	57.34	
	A168	4,842,081	06-27-1989	Parant	175	23	
	A169	4,840,128	06-20-1989	McFarlane et al.	108	50	
	A170	4,832,552	05-23-1989	Skelly	414	22.54	
	A171	4,813,495	03-21-1989	Leach	175	6	
	A172	4,765,416	08-23-1988	Bjerking et al.	175	71	
	A173	4,762,187	08-09-1988	Haney	175	71	
	A174	4,760,882	08-02-1988	Novak	166	295	
	A175	4,735,270	04-05-1988	Fenyvesi	175	113	·
	A176	4,725,179	02-16-1988	Woolslayer et al.	414	22	
·	A177	4,691,587	09-08-1987	Farrand et al.	74	493	·
4	A178	4,676,310	06-30-1987	Scherbatskoy et al.	166	65.1	
7	A179	4,671,358	06-09-1987	Lindsey, Jr. et al.	166	291	
77	A180	4,686,873	08-18-1987	Lang et al.	81	57.35	
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-/	A181	4,655,286	04-07-1987	Wood	166	285	
1	A182	4,652,195	03-24-1987	McArthur	414	22	
<u> </u>	A183	4,651,837	03-24-1987	Mayfield	175	262	
-	A184	4,630,691	12-23-1986	Hooper	175	65	
_	A185	4,605,077	08-12-1986	Boyadjieff	175	85	
	A186	4,604,724	08-05-1986	Shaginian et al.	364	478	
	A187	4,589,495	05-20-1986	Langer et al.	166	383	•
	A188	4,583,603	04-22-1986	Dorleans et al.	175	324	·
	A189	4,580,631	04-08-1986	Baugh	166	208	
	A190	4,545,443	10-08-1985	Wiredal	175	258	
	A191	4,544,041	10-01-1985	Rinaldi	175	57	
	A192	4,534,426	08-13-1985	Hooper	175	65	
	A193	4,474,243	10-02-1984	Gaines	166	362	
	A194	4,472,002	09-18-1984	Beney et al.	308	3.9	
	A195	4,470,470	09-11-1984	Takano ·	175	260	
	A196	4,463,814	08-07-1984	Horstmeyer et al.	175	45	
	A197	4,460,053	07-17-1984	Jurgens et al.	175	329	
• ,	A198	4,440,220	04-03-1984	McArthur	166	85	
	A199	4,430,892	02-14-1984	Owings	73	151	
. •	A200	4,413,682	11-08-1983	Callihan et al.	166	382	
	A201	4,408,669	10-11-1983	Wiredal	175	258	
	A202	4,384,627	05-24-1983	Ramirez- Jauregui	175	260	
3	A203	4,336,415	06-22-1982	Walling	174	47	
*	A204	4,320,915	03-23-1982	Abbott et al.	294	96	
	A205	4,315,553	02-16-1982	Stallings	175	207	
1	A206	4,291,772	09-29-1981	Beynet	175	5	
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1	A207	4,287,949	09-08-1981	Lindsey, Jr.	166	212	
-/-	A208	4,281,722	08-04-1981	Tucker et al.	175	57	
	A209	4,274,777	06-23-1981	Scaggs	414	22	
	A210	4,262,693	04-21-1981	Giebeler	137	494	
	A211	4,257,442	03-24-1981	Claycomb	137	238	
	A212	4,256,146	03-17-1981	Genini et al.	138	111	
	A213	4,227,197	10-07-1980	Nimmo et al.	343	878	
	A214	4,194,383	03-25-1980	Huzyak	72	245	
-	A215	4,175,619	11-27-1979	Davis	166	291	
	A216	4,173,457	11-06-1979	Smith	51	309	
	A217	4,144,396	03-13-1979	Okano et al.	560	246	·
	· A218	4,142,739	03-06-1979	Billingsley	285	18	
	A219	4,133,396	01-09-1979	Tschirky	175	57	
	. A220	4,116,274	09-26-1978	Rankin et al.	166	250	
	A221	4,113,236	09-12-1978	Neinast	254	134.5	
	A222	4,100,968	07-18-1978	Delano	166	315	
	A223	4,085,808	04-25-1978	Kling	175	94	
	A224	4,082,144	04-04-1978	Marquis	166	250	
	· A225	4,077,525	03-07-1978	Callegari et al.	214	2.5	
	A226	4,064,939	12-27-1977	Marquis	166	253	
	A227	4,063,602	12-20-1977	Howell et al.	175	7	
	A228	4,054,426	10-18-1977	White	51	309	
1	A229	4,049,066	09-20-1977	Richey	175	323	
	A230	4,009,561	03-01-1977	Young	57	6	
	A231	4,006,777	02-08-1977	LaBauve	166	250	
1	A232	3,980,143	09-14-1976	Swartz et al.	173	100	
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1	A234	3,964,556	06-22-1976	Gearhart et al.	175	45	٠.
<del>-//</del>	A235	3,945,444	03-23-1976	Knudson	175	92	
	A236	3,933,108	01-20-1976	Baugh	114	.5	
	A237	3,885,679	05-27-1975	Swoboda, Jr. et al.	214	1	
•	A238	3,881,375	05-06-1975	Kelly	81	57.35	
·	A239	3,870,114	03-11-1975	Pulk, deceased et al.	175	258	
	A240	3,840,128	10-08-1974	Swoboda, Jr. et al.	214 <sup>-</sup>	1	
	A241 .	3,838,613	10-01-1974	Wilms	81	57.34	
	A242	3,808,916	05-07-1974	Porter et al.	81	57.19	
	A243	3,747,675***	07-24-1973	Brown	166	237	
	A244	3,729,057	04-24-1973	Werner	175	262	
	A245	3,692,126	09-19-1972	Rushing et al.	175	259	
	A246	3,656,564	04-18-1972	Brown	175	228	
	A247	3,603,413	09-07-1971	Grill, et al.	175 .	261	
	A248	3,603,412	09-07-1971	Kammerer, Jr. et al.	175	260	
	A249	3,603,411	09-07-1971	Link	175	259	
	A250	3,559,739	02-02-1971	Hutchison	166	311	
. •	A251	3,570,598	03-16-1971	Johnson	166	178	
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	A254	3,552,508	01-05-1971	Brown	175	258	
1	A255	3,550,684	12-19-1970	Cubberly, Jr.	166	250	
. 7	A256	3,518,903	07-07-1970	Ham, et al.	81	57.16	
7	A257	. 3,392,609	07-16-1968	Bartos	81	57	
77	A258	3,380,528	04-30-1968	Timmons	166	14	·
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	A260	3,123,160	03-03-1964	Kammerer	175	82	
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	A262	3,036,530	05-29-1962	Mills, et al.	104	155	
	A263	2,743,495	05-01-1956	Eklund	22	202	1
	A264	2,738,011	03-13-1956	Mabry	166	. 144	·
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	A266	2,668,689	02-09-1954	Cormany	255	35	
	A267	2,650,314	08-25-1953	Hennigh, et al.	310	67	•
	A268	2,621,742	12-16-1952	Brown	166	1	
	A269	2,610,690	09-16-1952	Beatty	166	16	
·	A270	2,522,444	09-12-1950	Grable	166	16	<u> </u>
	A271	2,214,429	09-10-1940	Miller	166	16	
	A272	1,917,135	07-04-1933	Littell		<u> </u>	
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·	A277	2002/0189863		Wardley			12-21-2000
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Do	A280	2002/0157829		Davis et al.			04-26-2001
1	A281	2002/0134555		Allen et al.			12-07-2001
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	A299	5,613,567				<u> </u>	
	A300	6,547,017	04-15-2003	Vail, III	175	379	
+	A301	5,836,409	11-17-1998	Vail, III	175	379	
	A302	5,615,747	04-01-1997	Vail, III	175	379	<u>.</u>
• /	A303	5,343,951	09-06-1994	Cowan et al.	166	293	
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	B13	WO 00/37771	06-29-2000	WIPO	E21B	43/10		$\boxtimes$	
	B14	WO 00/11311	03-02-2000	WIPO	E21B	19/16		$\boxtimes$	
	B15	WO 00/11310	03-02-2000	WIPO	E21B	19/16		$\boxtimes$	
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